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New Polymorphisms of Exon 8 of the GrowthHormone Receptor Gene in Pesisir Cattle

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Abstract

Growth hormone (GH) exerts its effects on growth and metabolism by interacting with a specific receptor (GHR) on the surface of the target cells. Therefore, GHR has been suggested as candidate gene for growth traits in cattle. The purpose of this study wereto identify genetic polymorphism of the Growth Hormone Receptor (GHR) genes and its relation with average daily gain and body measurement in Pesisir Cattle. Total of 176 blood samples were collected from two populations belonging to Padang MangatasBreeding Station (23 samples) and from Pesisir Selatan district (153 samples). Genomic DNAs were extracted by Promega DNA purification kit and amplified by a polymerase chain reaction (PCR) techniques then PCR products were direct sequenced to detect polymorphism and then were genotyped by the Polymerase Chain Reaction-Restriction Fragment Length Polymorphism (PCR-RFLP) methods using two enzyme *Tas1* and *Tsca1*. For GHR/*Tas1* there were two allele dan three genotypes were found namely: allele A and B with A frequency 0.42relatively higher than allele B frequency 0.58 and genotypes AA, AB, and BB with frequency genotypes 0.17 , 0.50, and 0.33 repectively. For GHR/*Tsca1* there were two allele dan two genotypes were found namely: allele C and D with A frequency 0.61relatively higher than allele B frequency 0.39 and genotypes CC and CD with frequency genotypes 0.22 and 0.78repectively. These two polymorphism were not significantfor average daily gain and body measurement as body length (BL), height at withers (WH) andchest depth (CD).

Keywords : Pesisir cattle, GHR, growth, body measutement